HYUNDAI

DVD + H.D.D.VIDEO RECORDER

HY-DVDR

INSTRUCTION MANUAL

3 YEAR WARRANTY

dts DIGITAL OUT | DOLBY DIGITAL | HDD VIDEO RECORDER | DVD VIDEO | COMPACT disc DIGITAL VIDEO | COMPACT disc DIGITAL AUDIO
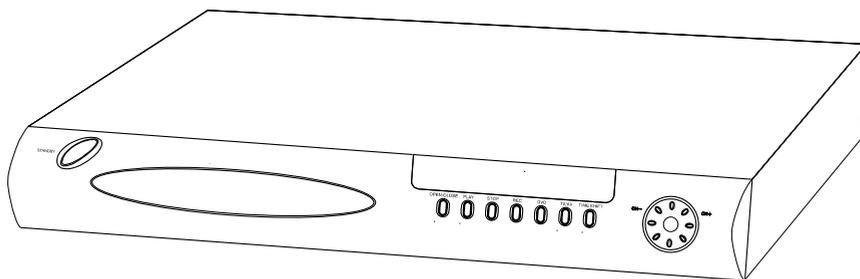
Please read the **I/M** carefully before connection

TABLE OF CONTENTS

SAFETY INFORMATION

Dear customers,

We take this opportunity to thank you for purchasing this DVR/DVD/VCD /CD Recorder player. We strongly recommend that you study carefully the operation instructions before attempting to operate the unit and that you have noted the listed precautions.

Note

This unit can be used only where the power supply is 240V 50Hz.

Caution

◆DVR/DVD/VCD/CD RECORDER PLAYER IS A CLASS 1 LASER PRODUCT. HOWEVER THIS DVD/CD PLAYER USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE DVD/VCD/CD PLAYER CORRECTLY AS INSTRUCTED WITHOUT OPENING CABINET AND LOADER COVER.

◆WHEN THIS PLAYER IS PLUGGED IN, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INSIDE THE PLAYER.

◆WHEN THIS PLAYER IS PLUGGED, DO NOT REMOVE THE PROTECTIVE CAP ON THE OPTICAL OUTPUT SCART. RED BEAM EMITTED WILL HARM YOUR EYES ESPECIALLY TO CHILDREN WHEN YOU LOOK AT OPTICAL OUTPUT SCART. ALWAYS PUT ON THE PROTECTIVE CAP WHEN THE SCART IS IDLE.

◆RADIOACTIVE DANGER MAY BE CAUSED IF YOU DO NOT FOLLOW THE METHOD STIPULATED HERE FOR THE OPERATION, ADJUSTMENT OR CONTROL.

◆PLEASE CONSIGN THE MAINTENANCE TO THE PROFESSIONAL TECHNICIAN.

WARNING

◆TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

◆TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOM-MENDED ACCESSORIES.

Manufactured under license from Dolby Laboratories."Dolby","Pro Logic", and the double-D symbol are trademarks of

Dolby Laboratories. Confidential unpublished works.   © 1992-1997 Dolby Laboratories. ALL rights reserved.

Copy Protection

This DVD player supports Macrovision copy protection. On DVD disc that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

Apparatus Claims of U.S. Patent Nos.4,631,603; 4,577,216; 4,819,098 and 4,907,093 licensed for limited viewing uses only

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This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other right owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only, unless authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

FEATURES

More functions than DVD player:
◆ Video playback,hard disc record, family entertainment
◆ Two different optional input modes :AV,RFTV signal.
◆ Two different modes output:Composite video,S-video.
◆ Digital audio output: optical/coaxial output jack.
◆ 5.1 channel analogue audio output.

Independent recorder:
◆ Built- in TV tuner.Support TV program receiving,independent recorder,recorder quality up to the DVD.
◆ Four record quality mode available.
◆ Support record auto overlay.

Timing plan
◆ Support one time.everyday.everyweek total 10 task plan.
◆ Perfect preset recording and play back TV programs. The user can set the startup of recording and play back program,time span freely. Through the edit of preset program list, you can record distant TV program, including serial TV program.

program copy:
◆ DVD/VCD program contents are copied and saved directly.
◆ Built-in AC3 decoder, support DTS and Dolby digital
◆ Acrobatic playback:third levels of speed of 2x,4x and 8x.shift slow.stepwise play.

Time shifting:
◆ Real time record
◆ advantage T/Shifting function. When watching TV program, press the "T/SHIFT" key, then the unit will enter a status of recording while playing. When you come back later, you can resume watching TV from where you paused.

Operation advantage
◆ VFD display
◆ Intelligent upgrate
◆ Compatible with DVD-VIDEO.VCD.SVCD.HDCD.CD. CD-R.CD-RW.MP3.JPEG CD disc.

Please read these precautions before operating this unit:
Power cord protection
To avoid any malfunctions of the unit, and to protect against electrical shock, fire or human injury, please observe the following:
◆ Hold the plug firmly when connecting the AC power cord to this unit or disconnecting it.
◆ Do not connect or disconnect the AC power cord when your hands are wet.
◆ Keep the AC power cord away from heating appliances.
◆ Never put any heavy object on the AC power cord.
◆ Do not attempt to repair or reconstruct the AC power

PRECAUTIONS

cord.
◆ Remove the dust, dirt, etc. on the plug at regular intervals.
◆ If the unit has been dropped or damaged, turn off the power and disconnect the AC power cord.
◆ If you find smoke, bad smells or noises from the unit, turn off the power and disconnect the AC power cord.

Placement
The internal parts may be seriously damaged if the unit is placed in the areas of :
◆ direct sunlight or heating radiators, or closed automobiles;
◆ high temperature (over 35°C) or humidity (over 90%) ;
◆ excessive dust;
◆ strong magnetic or static electricity ;
◆ vibration, impact or where the surface is titled.

Non-use Periods
◆ Turn off the power when the unit is not in use.
◆ It should be unplugged when the unit is idle for a long period of time.

No fingers or other objects inside
◆ Touching the internal parts of this unit is dangerous, and may cause serious damage to the unit and even human injury.
◆ Do not try to disassemble this unit.
◆ Do not put any other object on the disc tray.

Keep away from water and magnets
◆ Keep the unit away from flower vases, tubs, sinks, etc. If liquids are spilled into the unit, serious damage could occur.
◆ Never bring magnetic objects near the unit such as speakers.

Stacking
◆ Place the unit in a horizontal position, and do not put anything heavy on it.
◆ Do not put the unit on amplifiers or other equipment, which may become hot.

Condensation
Moisture may form on the lens in the following conditions:
◆ In a steamy or very humid room
◆ Immediately after a heater is turned on
if moisture forms inside this unit, it may not operate properly. In this case, turn on the power for about 1 hour to evaporate it.

ACCESSORIES

Plese check and confirm the accessories:

Remote Control	1 piece
Instruction Manual	1 piece
Battery	2 pieces
Warranty card	1 piece
3-Way AV cable	1 piece

FRONT PANEL
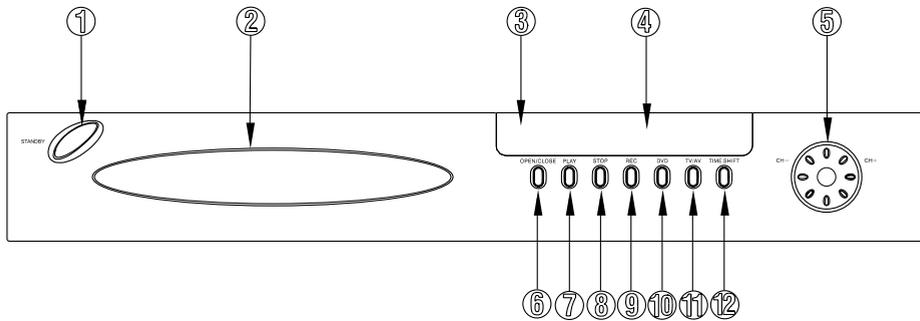
1. STANDBY switch

2. Disc tray

3. Remote Control Sensor

4. VFD display

5. Channel+/- button

6. OPEN/CLOSE button

7. PLAY button

8. STOP buiion

9. REC button

10. DVD button

11. TV/AV button

12.TIME SHIFT button

REAR PANEL

1.Video output jack

2. 5.1channel centre output jack

3. 5.1channel surround left output jack

4. 5.1channel front left output jack

5. Power Switch

6. TV antenna input jack

7. Exhausting Fan

It is working when the unit is powered on.

8. S-VIDEO output jack

9. Optical output jack (Not available for TV channel)

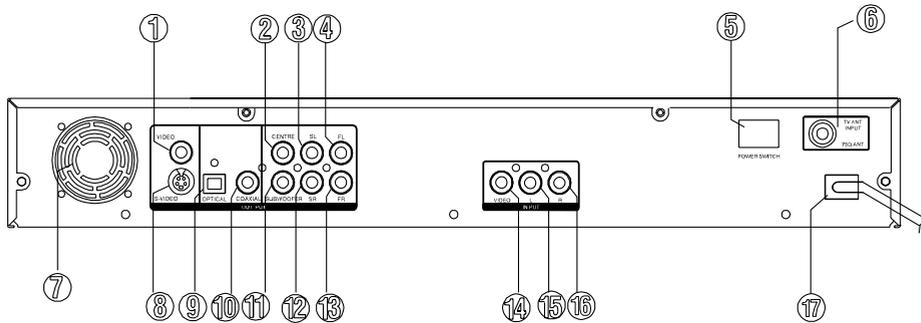   Outputs digital audio signals and can be connected to digital audio decoder or amplifer with optical input

10. Coaxial output jack (Not available for TV channel)

   Outputs digital audio signals and can be connected to digital audio decoder or amplifer with input

11.5.1channel subwoofer output jack

12. 5.1channel surround right output jack

13. 5.1channel front right output jack

14. AV Video input jack

15. AV channel left input jack

16. AV channel right input jack

17.AC Power Cord

Note:

Take out the plug and keep the power cord well when the player is idle for a long period in order to avoid electricity leakage and shock resulted from scratched power cord

REMOTE CONTROL

1.OPEN/CLOSE button

2.TITLE button

3.A-B REPEAT button

4. SUB-T (Subtitle) button

5. NUMBER(0-9.+10.--)button

6.MUTE button

7.AUDIO button

8.REC button

9.CH+.CH- button

10.DISPLAY button

11. Direction button: ▲ (up) button, ▼ (down) button, ◀

(left) button, ▶ (right) button

12.RETURN button

13.SLOW button

14.STOP button

15.FB button

16.FF button

17.ZOOM button

18.LANGUAGE button

19.VOL- botton

20.VOL+ botton

21.PREV button

22.NEXT button

23.STEP/PAUSE   button

24.PLAY button

25.ENTER button

26.SETUP button

27.DVD shift button

28.T/SHIFT button

29.TV/AV button

30.BOOK/MARK button

31.R/L button

32.CLEAR button

33.P/N button

34.PBC mode button

35.GO TO button

36.ANGLE button

37.CHAPTER button

38.PROG button

39.POWER   button

40.DIGEST button

41.REPEAT button
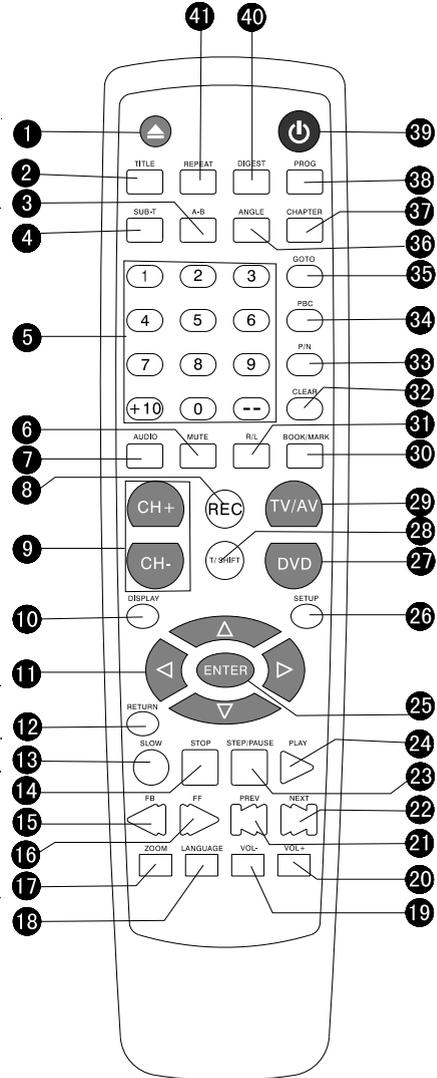
Note: The same button on remote control and front panel

have the same functions.

-7-

PANEL DISPLAY

1. DVD disc mode indicator

2. playback indicator (DVD or HD)

3. TV mode indicator

4. pause indicator

5. VCD/ CD disc mode indicator

6. Record indicator

7. Time shifting indicator

8. SP (Standard recording mode) indicator
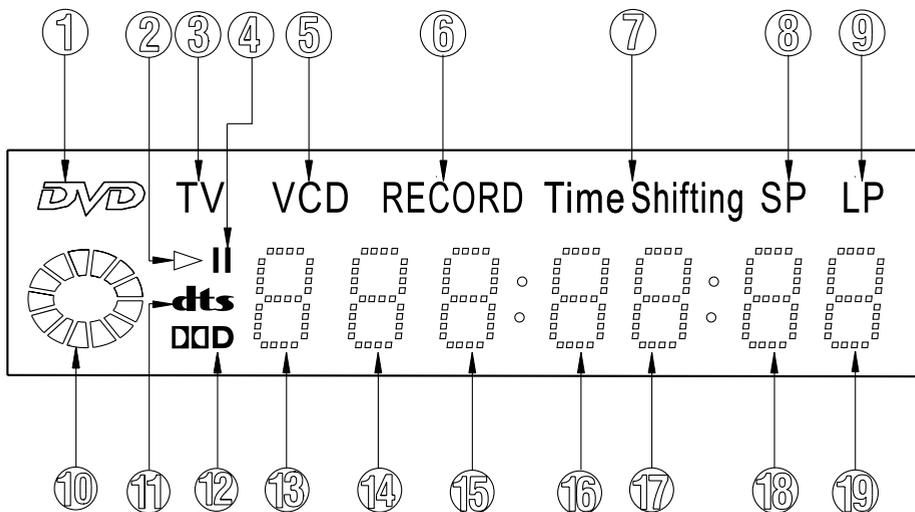
9. LP (Long play recording mode) indicator

10. Playback running indicator

11. DTS indicator

12. Dolby digital indicator

13. 14.TITLE Display or chapter Display

15. Time Display(Hour)

16. 17.Time Display(Minute)

18.19. Time Display (second)

BASIC CONNECTION

◆Ensure that the power switch of this unit and other equipment to be connected is turned off before commencing connection

◆Read through the instructions before connecting other equipment

◆Ensure that you observe the color-coding when connecting audio and video cords

A: Connecting to TV set

1. TV set (not included)
2. DVR Record player
3. To S-video input connector of TV set (not included)
4. 75ohm Antenna input jack (antenna cable not included)
5. Video/Audio cord
6. To composite video input connector of TV set (yellow)
7. To TV Set audio input left and right connector.(white, red)

To get the best possible image quality, please use the S-video cord. Connect the unit to the TV set with S-video input, and set the TV set to S-video input. Meanwhile set the OSD menu's video output to S-video. Then the image will be clearer.

Recommendation: Set the analogue audio output as 2 CHANNEL

B: Connection with External Antenna/CATV signal Source and TV set

1. Audio/Video equipment (not included)
2. TV SET (not included)
3. DVR Record player
4. 75ohm Antenna input jack (Antenna cable not supplied)
5. Video/Audio cord.
6. To TV set video input connector(yellow).
7. To TV set audio input connector (white,red).
8. S-video. to TV set S-video input connector .
9. Video/Audio cord .
10. to Audio/Videot equipment video output connector.
11. to Audio/Videot equipment audio output connector (white,red)

Recommendation: Set the analogue audio output up 2 CHANNEL
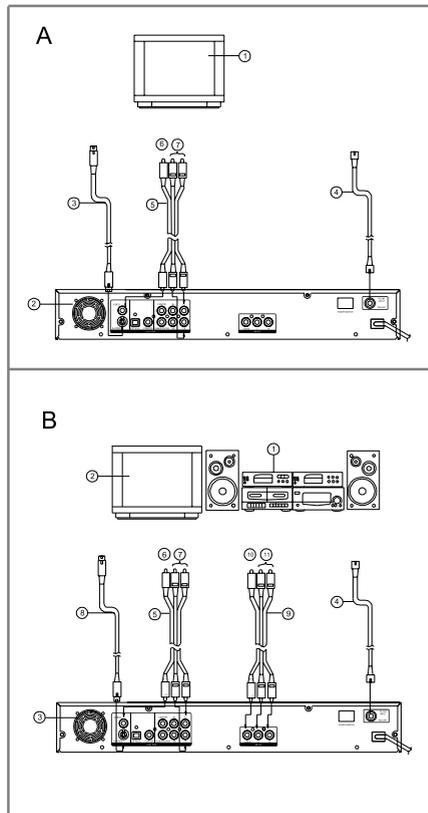
BASIC CONNECTION

C: Connecting to AV amplifier with 5.1 channel input connector supporting Dolby AC-3 or MPEG2

This DVR Recorder Player contains a Dolby(AC-3) or MPEG2 decoder.this enables the playback of DVR Recoder with Dobly digital,MPEG1/2 audio or linear PCM processing.When the player is connected to an AV amplifier with 5.1channel input connectors,theater quality audio could be enjoyed at your home when playing a disc recorded in Dolby digital,MPEG1/2 audip or linear PCM. you can enjoy theater-quality at your home.

1. TV set (not included)
2. DVR Recorder player
3. 5.1 Channel Amplifer (not included)
4. Video/Audio cords/S-video cord (optional)
5. Audio cords
6. To audio input connector (center)
7. To audio input connector (subwoofer)
8. To audio input connector(surround L,R)
9. To audio input connector(front round L,R)
10. Center speaker (CENTER)
11. Front left speaker(FL)
12. Front right speaker(FR)
13. Subwoofer speaker(SUBWOOFER)
14. Surround left speaker (SL)
15. Surround right speaker(SR)

Recommendation: Set the analogue audio output up 6 channel

Note:1. Choose right "AUDIO" settings for this player according to your audio system requirement after connection is made

2. If the type of the speaker connected does not satisfy the channels recorded in an MPEG 2 or Linear PCM disc. The disc will not be played in all channels but in 2 channels(i.e. even if the front speakers and the center speakers are connected, a disc recorded in 5 channels will be played back only in 2 channel

3 . DVDs recorded in Linear PCM/96KHZ sampling will also be played back only in 2 channels.

-10-
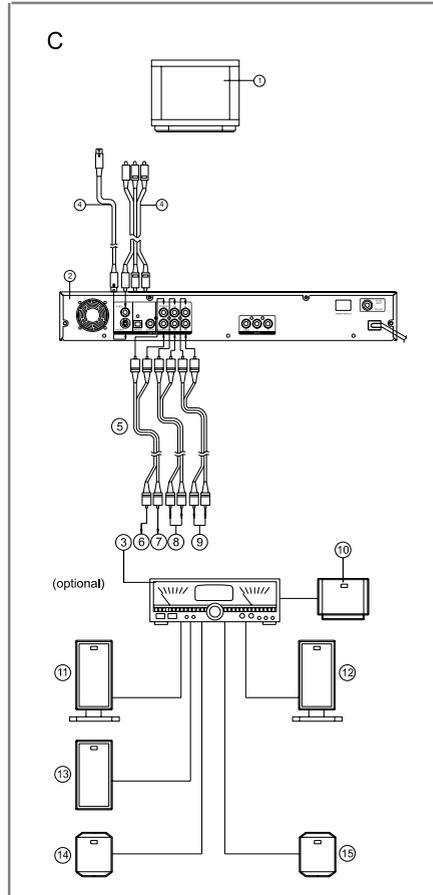
BASIC CONNECTION

D: Connecting to a decoder with Dolby digital (AC-3)processing or MPEG processing

When DVDs recorded in Dolby digital or MPEG audio are played, Dolby digital bit stream or MPEG audio bit stream is output from the player's OPTICAL digital audio output connector or COAXIAL digital audio output connector. When the player is connected to a Dolby digital decoder or MPEG audio decoder, you can enjoy theater-quality at your home.(see Graph E)

Take off the protective cap of optical cables and point each end of optical cables at DVD player and the amplifier with optical input and the locating slot of optical jack, make sure they have been connected firmly. Keep the cap well and put it into its output jacks again to avoid dust and other sending-out laser which may cause hazard when the jacks not in use.

Concerning the audio output from the unit's co-axial digital audio output connector

DISC	SOUND RECORDING FORMAT	DIGITAL OUTPUT SETTING
DVD	DOLBY DIGITAL (AC-3)	DIGITAL SIGNAL RAW OR PCM 48KHz/16bit
	DTS	DTS RAW
	LINEAR PCM	LINEAR PCM[1,2]
	MPEG1/MPEG2	AUDIO BITSTREAM OR PCM(2 CHANNEL (16bit)
VCD	MPEG1	PCM(44.1KHz SAMPLING)
CD	LINER PCM	PCM(44.1KHz SAMPLING)
MP3	MP3	PCM(44.1KHz SAMPLING)

*1 Sound having 96KHz sampling is converted to 48 kHZ sampling when it is output from the unit's coaxial digital audio output connector

Note: Please refer to the setup operations for set method.

For your reference:

◆Dolby Digital(AC-3) is a digital sound compression technique developed by the Dolby Laboratories Licensing Corporation. Supporting 5.1-channel

◆Linear PCM is a signal-recording format used in CDs. While CDs are recorded in 44.1KHz/16bit,DVDs are 48KHz /16 bit up to 96KHz/24 bit.

Caution for the optical/coaxial digital audio output connector

◆Do not connect an amplifier (with an optical/coaxial digital input connector) which does not contain the Dolby Digital(AC-3) or MPEG audio decoder otherwise it may be harmful to your ears and destroy your speakers.

◆Choose "RAW" in the digital audio setup to effect Optical/ Coaxial digital output when playing disc with DTS output or Dolby digital ouput

D

TV set(optional)

S-Video cord (optional)

Video/audio (optional)

DVR player

Optical audio cord (optional)

Coaxial audio cord (optional)

To optical audio input   To coaxial audio input

Decoder or amplifier with Dolby digital (Pro Logic) or MPEG (optional)

(All are optional)

E

Dust protection cap
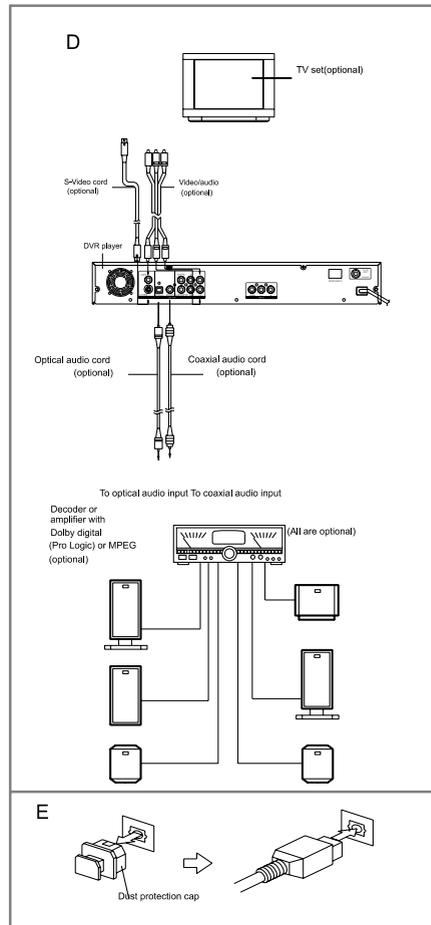
REMOTE CONTROL PREPARATION

Battery Installation

Insert the batteries while observing the positive(+) and negative(-) polarities as Figure A

Service life of batteries

◆The batteries normally last for about one year although this depends on operation and for what operations the remote control is used.

◆If the remote control unit fails to work even when it is operated near the player, replace the batteries

◆Use size AAAUM-4 batteries(2 pieces)

Notes:

◆Do not use rechargeable (Ni-Cd) batteries

◆Do not attempt to recharge, short circuit, disassemble, heat or throw the batteries into fire

◆Do not drop, step on or impact the remote control otherwise this may damage the parts or lead to malfunction

◆Do not mix old and new batteries

◆If the remote control is not going to be used for a long time, remove the batteries. Otherwise, electrolyte may leak which may lead not only to malfunctioning but also to burns if contact is made with the electrolyte

◆Wipe away any electrolyte leaking inside the remote control, and install new batteries

◆If any electrolyte should come into contact with parts of your body, wash it off thoroughly with water

Remote control operation range

◆The operation range of the remote control is no more than about 5m from and within about 60 degrees of the front of the unit (Figure B)

◆The operating distance may vary according to the brightness of the room

Note:

◆Do not point bright lights at the remote control sensor

◆Do not place objects between the remote control unit and the remote control sensor

◆Do not use remote control while simultaneously operating the remote control of any other equipment

A

B　　　Remote control sensor

Among 5 meters　30° 30°

-12-
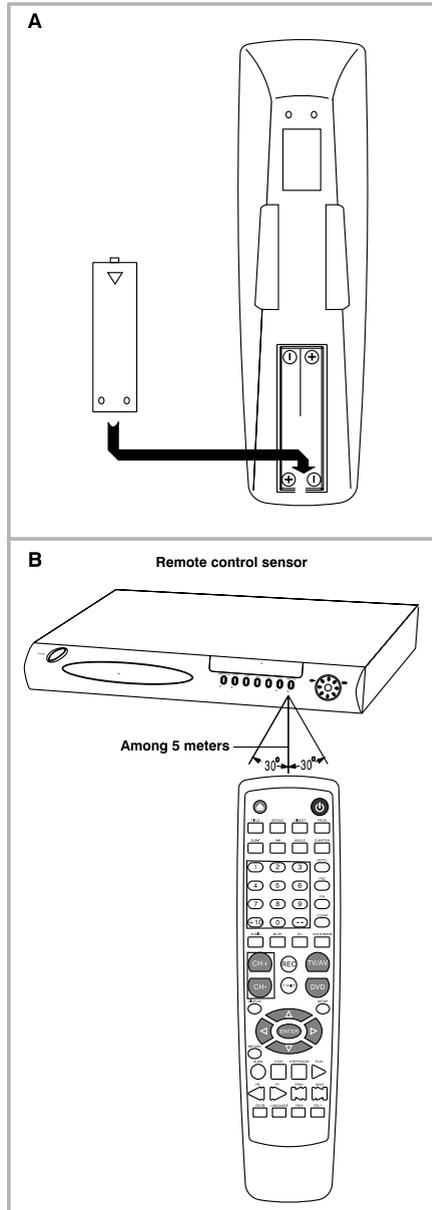
OPERATIONS

Preparation

◆Turn on TV set and select AV as the TV input

◆Switch on the related equipment if the player has been connected to amplifier etc.

◆Most of the functions are operated by remote control . Either the operation of the remote control or front panel will be affected when their buttons indicate the same function

1. DVD player Operation

PLAY

1. Connect AC power cord to AC outlet.

2. Switch on the power, VFD shows relative information that means power supply is normal.

Note: full screen display indicates initial self checking. A few seconds later it will display "TV"

3. Press **DVD** button to work under DVD mode

4. Press **OPEN/CLOSE** button to open disc tray. "OPEN" will be displayed on the lower right of TV screen.

5. Press (**OPEN/CLOSE**)button again to close the disc tray **CLOSE** is displayed on the lower right of TV screen during closing, then it will display **LOADING**.

6. After the disc is loaded, press **PLAY** button to play back disc loaded.

STOP

Press **STOP** button to stop playing.

PREV/NEXT

Press **PREV** button or **NEXT** button on remote control during playback, a chapter (DVD/VCD) or track (CD) is skipped back or ahead correspondently each time the button is pressed

FF/FB

Press **FF/FB** on the remote control during playback and the unit will enter **FF/FB** status.The speed of **FF/FB** is relatively slow from the beginning. When pressed again, the speed will become faster. The more times that you press the buttons, the faster the fast forward or reverse speed will be. There are 3 levels of speed available: x2, x4, x8. To return to normal play,press **PLAY** button on the player or remote control.

Note: Some discs including MP3 disc have no such function.

SLOW

Press **SLOW** button on remote control during playback of a disc and the unit works slow playing. There are 3 levels of speed available:1/2, 1/4,1/8.

Note: Some discs have no such function.

PAUSE/STEP

Press **PAUSE/STEP** button during play, the player will enter the still picture mode. If the button is pressed again, the disc is advanced by one frame (step). When the button is kept pressed, consecutive frame advance works. To return to the normal play mode, press PLAY button.

Note: Some discs have no such function.

NUMBER (0-9.+10,-- button)

Press **NUMBERI(0-9.+10)** button and then press OK button allows you to access directly any desired track when a disc is playing.

Note: -- button has no function under DVD mode

MUTE

Press **MUTE** button during playback, the player shows **MUTE** and there is no audio output (silence), press(**MUTE**) or **VOL-**.**VOL+** or press **PLAY** again to cancel **MUTE** display.

VOL+/VOL-

Press **VOL+/VOL-**button during play may change volume for audio output.

Note:VOL button loses function for coaxial/optical digital output.

ANGLE

Press **ANGLE** continuously during playback to toggle available angles if the disc has multi-angle function.

AUDIO(L/R)

Press **AUDIO** button during playback to toggle between available audio language recorded on the disc if the disc has multi-language.

ZOOM

Press **ZOOM** button during play or pause status to zoom up the current picture.

OPERATIONS

DISPLAY

Press **DISPLAY** during playback to show the disc's relevant information on TV screen (such as playing time, tItle,chapter,playback status).

PBC

Press **PBC** button to open or close PBC play mode under the normal status.

Note: Only VCD disc has such function

DIGEST

Press **DIGEST** button to open DIGEST play mode under the normal status.

Note: Only VCD disc has such function

A-B REPEAT

Press **A-B** button during playback at the point where repeat play is to commence(A) then press again at the point where repeat play is to be concluded(B). Repeat playback between point(A) and point(B) starts.

Press A-B button once more ,and TV screen appears **OFF** or press **STOP** button to return to normal play.

Note: Some DVD discs and MP3 discs have no such function

REPEAT

Press **REPEAT** button to select the desired track,title and disc during playback, and then the unit will playback according to your selection. Press REPEAT button or STOP button to cancel repeat playback.

CLEAR

When setting program or searching, you will need to input a number. Press **CLEAR** button to clear the number when the input number is incorrect.

P/N

Press **P/N** button to choose PAL and NTSC during playback.

Note: Choose AUTO or correct setting system to match disc format in order to get good picture and sound quality.

GO TO

Press **GO TO** button during playbacking ,for VCD , it will display" TRACK SEARCH and TIME" picture on the top left of the TV screen.

For DVD , it will display "SEARCH TITLE/CHAPTER/TIME' picture according. Please input what you want by number button and direction button, then press **ENTER** to confirm the setup

Note: Some discs have no such function.

TITLE (DVD Only)

Press **TITLE** button on remote control when during playback,a title list on the disc (depends on discs)will be displayed on TV monitor.

Use direction button or number button to select your preferred title then press **ENTER** to start to play.

CHAPTER (DVD Only)

Press **CHAPTER** button on remote control during playback, chapter list on the disc(depends on disc)will be displyed on TV monitor,

Use direction button or number button to select your preferred title then press **ENTER** to start play.

SUB-T

Press **SUB-T** button to select your preferred subtitle during playback

Note:The function is valid only for DVD disc with multi subtitle

BOOK/MARK

Press **BOOK/MARK** button to enter BOOK/MARK picture during playback, then press **ENTER** button to confirm the location of BOOK/MARK. There are five MARKS available in total. After finishing, press 1,2, 3, 4 or 5 number button to play from the location of BOOK/MARK you setup.

AUDIO (VCD Only)

Press **AUDIO** button to to display EFFECT SETUP including BASS/TREBLE/ 3D which could be adjusted by direction button.

2. RECEIVE TV PROGRAM

Press TV/AV button to enter TV playback mode, and then press SETUP button to enter TV CHANNEL MANAGER AUTO search picture. Press ENTER button to start to search channel and saved automatically. After finishing, press number button(0,9,--) or (CH+,CH-) to select the channel you like. Please refer to page 16 for the details of TV channel manager

T/SHIFT

When watching TV program, press **T/SHIFT** button, then the unit will enter a status of recording while playing. You can then leave it. When you come back a while later, you can press **FB** button to move backward fast to the part you have missed from continuity, or press **FF** button to move forward fast to skip the advertisement programs and gradually catch up with the program being played

-14-

OPERATIONS

3.RECORD

AV INPUT RECORD

You can transmit AV input video signal and stereo audio signal to the unit and playback or record.And press **TV/AV** button and set the unit up to AV status. If you want to record the signal from AV input video and stereo audio, please press **REC** button to playback and record simultaneously. Press **STOP** button to stop the recording.

TV PROGRAM RECORD

Press **REC** button to simultaneously playback and record. And press **STOP** button to stop recording.

RECORD QUALITY

The recording quality of the unit can be classified as four levels in ascending order, i.e. SEP EP,LP and SP

The higher the image quality is, the more space the image occupies on the hard disc and the shorter the recording time. Thus, the user should select proper image quality and hard disc capacity.

Determine the image quality before recording.

Note: Do not change the image quality during recording. The following is a map of image quality and recording time under standard configuaration(40G)

Image Quality	Continuous Recording Time
SP(very good)	10:22:17
LP(good)	13:38:13
EP(common)	23:03:44
SEP(poor)	49:19:45

PROG

Press **PROG** button to access to the recorded program when the unit is not in the DVR playing status. And select it by direction button and ENTER button. And press **STOP** button to stop playbacking it.

SETUP

Choose the options in the **SYSTEM SETUP** menu and then implement the setup operation in each of the selected option window. The method for entering into the **SYSTEM SETUP** menu is to press **SETUP** button on the remote control when the unit is not in the DVR playing status.And then setup the seven items, ie. **SYSTEM SETUP, TV CHANNEL MANAGER, HARD DISK MANAGER, RECORD SCHEDULE, DVD PLAYER SETUP, AUTO OVERLAY DEFAULT SETUP.** Please press ▲ or ▼ button to move cursor to highlight the option, and press ENTER button to confirm the selection.

When all the options are set up in a window, press **ENTER** again to return to the upper level menu and the current selection and input will be stored. If you want to cancel the current operation and return to the upper level menu in the course of input or selection, please press **RETURN** button.

SYSTEM SETUP

Press **SETUP** button to enter **SETUP MENU.** Use cursor to select the **SYSTEM SETUP** option, the corresponding function of each submenu is described as the following:

1. PICTURE SETUP

It is an adjustment of the quality parameter of the DVR output video signal. ie. Default, Brightness, Contrast, Color.The current value of the video parameters is shown on the bottom of the screen. Move the cursor to the submenu option by pressing ▲ or ▼ . Press **CH+**, **CH-** and **ENTER** to change the setup.

Note: This setup has nothing to do with DVD player.

2. DATE/TIME SETUP

User can move the cursor by pressing direction button (▲ . ▼ . ◀ or ▶) and then press number button to modify the option. Press **ENTER** button to confirm setup and return.

3.RECORD QUALITY

There are four levels of record image quality for user to select, i.e. **SP**,**LP**,**EP** and **SEP**.Move the cursor by pressing direction button(▲ . ▼) and press **ENTER** button to confirm the change.

4.TIME SHIFTING SETUP

There are four levels of time shifting for user to select, i. e, **30 MINUTES**, **60 MINUTES**, **90 MINUTES** and **120 MINUTES**.Move the cursor by pressing direction button (▲ . ▼) and press **ENTER** button to confirm the change.

-15-

SETUP

5. **OSD LANGUAGE SETUP**
ENGLISH OSD language is available.

6. **POWER ON MODE**
 It is a setup to decide which status the unit is in when power on

NORMAL MODE: After started, the unit is in DVR starting status, and the starting image is shown on the screen.
TIME SHIFTING: Under this setup, the unit will be in the TIME SHIFTING status when power on.

7. **VERSION NUMBER**
It is to show the software version information.

TV CHANNEL MANAGER
This submenu is used to manage the TV channels. Move the cursor by pressing direction button (▲, ▼, ◀ or ▶) and press ENTER button to confirm the change of the following four options available.

1. SORT:.Realign all the channels currently searched according to your own needs.by pressing direction button.

CHANNEL SORT	
SKIP	OPEN
CHANNEL NUMBER	01
NEW NUMBER	02

Press ENTER button to activate SORT function when cursor moves to SORT option.
1) Press direction button (left or right button) to choose OPEN but not CLOSE to activate skip function
2) Press direction button (down button) to change desired new number, press ENTER Button to confirm the change.
3) Press SETUP button or RETURN button to exit SORT menu.
4) The new channel (02) will be skipped from channel list by pressing CH+/- during searching;
5) The new number stores the channel to be sorted. Press new number (02) to display sorted channel (01).

2. AUTO: Press the ENTER button and enter the TV program automatic search status. The unit will search all TV available channels. The principle and function are the same as remote controlling a TV. Press ENTER button when cursor points AUTO option to search TV channel
automatically.

3. MANUAL: You can use this option to search an unique channel. Press ENTER button when cursor points MANUAL option to search TV channel by hand.

MANUAL SEARCH
CHANNEL 2
BAND

Press direction button to change channel and press ENTER button to store current TV channel into the new channel number. for example, current channel is 2 and change it to 3, Press ENTER button to store the change and exit the setup menu.

4. FINE: Finely tune the parameters of the current program for better resolution. Press direction button to choose better resolution and press ENTER button to cofirm the change.

HARD DISC MANAGER
This submenu helps you to manage the built-in hard disc. Move the cursor by pressing direction button (▲, ▼, ◀ or ▶) and press **ENTER** button to confirm the change of following three options available.

1. **SYSTEM INFO**: Display the information about the built-in hard disc.

2. **SCAN DISC**: To scan the hard disc, press **ENTER** button to confirm the start of the scanning to the hard disc. Press the **RETURN** button to return to the upper level menu.

3. **FORMAT DISC**: To format the hard disc, press ENTER button to confirm the start of the scanning to the hard disc. Press the **RETURN** button to return to the upper level menu.

RECORD SCHEDULE
Under the homepage, move cursor by pressing (▲ or ▼)button and **ENTER** button to access to **RECORD SCHEDULE**. Then move the cursor by pressing direction button (▲, ▼, ◀ or ▶),number button(0-9) and **ENTER** button to confirm the change.

DVD PLAYER SETUP
Under the homepage, move cursor by pressing (▲ or ▼)button and **ENTER** button to access to **DVD PLAYER SETUP** page. Move the cursor by pressing direction button (▲, ▼, ◀ or ▶) and press **ENTER** button to confirm the change of the following six options available.

1. **ANALOGUE AUDIO OUTPUT**: Select the analogue audio output as **2 CHANNEL** and **5.1 CHANNEL.** Press **ENTER** button to confirm OK and return to the upper lever menu.

2. **DIGITAL AUDIO OUTPUT**: Select the digital audio output as the **DOLBY DTS, LPCM** format. Press **ENTER** button to confirm OK and return to the upper level menu.

3. **VIDEO SYSTEM**: Select the TV SYSTEM as NTSC or PAL. Press **ENTER** button to confirm OK and return to the upper level menu.

4.**SCREEN ASPECT**: Select the video output width-height ratio as 16:9 WS/4:3 PS/4:3 LS.Press **ENTER** button to confirm OK and return to the upper level menu

5. **VIDEO** : Select the video output as **COMP** or **S-VIDEO**.Press **ENTER** button to confirm OK and return to the upper level menu

6. **RETURN HOMEPAGE**: Press **ENTER** button to return to the homepage.

AUTO OVERLAY
Under the homepage, move cursor by pressing (▲ or ▼)button and **ENTER** button to access to **AUTO OVERLAY** page. Then move the cursor by pressing direction button (▲, ▼)and **ENTER** button to confirm the change of the following two options available.

1. **ENABLE**: When the hard disc is full, the new recorded program will overlay the old ones automatically.

2. **DISABLE**: When the hard disc is full, the unit will not continue recording. It will not resume recording until you clear the hard disc.

DEFAULT SETUP
Under the homepage, press **ENTER** button to access the **DE-FAULT SETUP** page when cursor moves on it. Then it will display the following options:

DEFAULT
RETURN

Note: After changing OSD setting, press **ENTER** button when cursor on DEFAULT option then OSD will return to factory default setting. Please note RETURN option is used to return to upper menu.

APPENDIX

◆ Handling Precautions Maintenance
Hold the disc by the edge so the surface will not be soiled with fingerprints. Fingerprints, dirt and scratches can cause skipping and distortion.
Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
Be careful not to drop or bend the disc.
Do not try to close the disc tray when the disc is not installed properly.
Be sure to store the disc in its exclusive case when not in use.

Handling
Wipe gently with a soft, damp (water only) cloth. Move the cloth from the centre hole towards the outer edge.

Improper disc storage
The discs may be damaged if they are stored in the following places:
Areas exposed to direct sunlight
Humid or dusty areas
Areas directly exposed to a heat outlet or heating appliance

◆ Maintenance
Be sure to turn the unit off and disconnect the AC power cord before maintaining the unit.
Keep the unit clean. If the surfaces are extremely dirty, wipe the unit with a dry soft cloth.
Never use alcohol, benzene or other chemicals. Do not use compressed air to remove dust.
Ask the technician to maintain the unit when problems appear.
Note:
1.During play pirate or non-standard disc,the unit may work atypically, in this status turn off the unit and restart it.
2. With the restriction of some discs the unit may not be able to display.
3.The unit may play MP3 disc atypically due to the format of disc, in this status repeat the operation or restart to turn on the unit.

◆**Definition of Terms**
ANGLE
Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (i.e. the same scene is shot from the front, left side and right side, etc.) scene from different angles.

CHAPTER NUMBER
These numbers are recorded on DVD discs. A title is subdivided into many sections. Each of which is numbered, and specific parts of video presentations can be searched quickly using these numbers.

DVD disc
This refers to a high-density optical disc where high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG2) and high-density recording technology,DVD enables esthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded).

Subtitles
These are the printed lines appearing at the bottom of the screen which translate or transcribe the dialogue. They are recorded on DVD discs and up to 32 languages.

APPENDIX

PBC
The language is indicated on TV screen to imply operation or disc information.

Audio
Language recorded on discs and the maximum languages are up to 8.

Time
This indicates the play time elapsed from the start of a disc of a title. It can be used to find a specific scene quickly(it may not work with some discs).

Title Number
These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Track Number
These numbers are assigned to the tracks which are recorded on audio CDs. They enable specific tracks to be located quickly.

FAQ(Frequently Asked Questions)
1. What is DVD digital video recorder and player
DVD digital video recorder and player (herein are referred as DVR) is the newest electronic entertainment product combining DVD player with digital hard disc recorder, which is high-tech outcome with the computer technology, multi-media technology, communication network technology, digital video and digital TV technology development to date. it satisfies the family user's many requirements for DVD playing, TV program recording, daily life recording and house safety guard, raising consumption upsurge of new generation family entertainment product after DVD.

2.What is DVR?
The DVR adopts hard disc as the signal storage media. It also adopts real-time capture, real-time compression, and real-time coding and storage technologies for analogue video signal to realize the large capacity and long time digital video recording realization should be based on embedded computer and embedded operation system. Hence, while realizing the digital video recording function, DVR also such functions as timing recording. Alarm trigger recording, time shifting, copy, network transport and monitoring. In addition, the function increase can be achieved only via upgrade software.

3.Advantages of DVR
Huge capacity hard disc for long time information storage. For example, 40G hard disc can record image and sound information for almost 20 hours under MPEG-2 compression and coding standard.
Hard disc will be affected little by the environment. Unusable situation resulting from long time storage will not occur.
The content stored in the hard disc can be played many times without damage.
The content is stored in the disc in data file mode, which

APPENDIX

can be copied directly to computer or other unit via various interfaces and will not cause copy loss for image and sound at all.

The information source stored in the hard disc can be held flexibly and can be deleted at any time if it is unnecessary, which will not affect other information. The hard disc space can be used repeatedly. It inherits the advantage of tape recording system and avoids the disadvantage of disc recording system.

The storage and read speed of the data in disc carries is fast and accurate. The interruption and mosaic case seldom occur.

The video and audio data is stored in file mode. It is easy to perform search, deletion, name change and security lock protection.

After digitalizaion, the video and audio can be transported via network in real time.

Thus, it can be used in both live relay and security lock.

4. **What is real-time coding/decoding technology?**

Real-time coding/decoding technology refers that DVR can collect the original video and audio data in real time for processing, convert it into standard MPEG-1 or MPEG-2 format video/audio code flow, then store it in the hard disk in file mode or send it out via network without any data stock and loss. To realize continuous audio image playing, the frame rate should be over 24. Therefore, the real-time coding/decoding technology requires the entire system speed to be fast enough. Otherwise, only through reducing the image quality and data quantity can the requirement be met.

5. What is time shifting function?

When you watch TV, you may have confronted the following problems:

1)The ball game is so breathtaking.How wonderful if you could watch the score scene again.

2)The wonderful serial program is played from 6:30. But you still have much housework to be done, and you can watch the program only from 7:00. You wish to watch from the beginning at 7:00, and skip the advertisement to keep the same pace with the normal program.

3)You have to spend a long time listening to a call and miss part of the program

4)There can be many advertisements in your favourite program, which can be annoying.

At this moment, do you have a pity? Would you have a sudden idea: Can TV programs be played backward, fast forward, fast backward, and be paused at random just like the disc?

APPENDIX

DVR's unique Time Shifting technology can resolve these problems absolutely to eliminate your troubles.

First, please confirm the proper connection between DVR and TV. Then, turn on the TV power. If your DVR output signal has been connected to AV IN(such as AV 1 input terminal) of the TV, please switch your TV to AV 1 input status. And then turn on DVR power and start DVR to enter RF TV signal input status.

Next, please activate Time Shifting function: Press **T/SHIFTING** button on the remote control, DVR enters Time Shifting status. All current TV program content can be recorded automatically in its special buffer area. There are 30 minutes, 60 minutes, 90 minutes and 120 minutes recording time for your selection.

At this moment, you can either watch other TV program via remote control or do other thing. Do not worry;DVR will record the program for your continuously.

If you are free now, please sit down and change the TV back to AV 1 input status. Press the Fast backward button **FF** on the remote control to reverse to the position you require. DVR will start to play program according to your requirement. When the advertisement you hate or the content you do not want to watch appears, you can use fast forward function to skip.

You can perform such operation as fast backward, fast forward, slow play and pause at your pleasure. So watch TV program is as convenient and fast as watching disc. The above function and operation is also suitable for AV signal recording of DVR. With DVR, your entertainment will have no trouble. it can provide you with the mose considerate and convenient service.

For example, if you connect DVR output signal to AV 1 IN (AV 1 input) terminal of the TV, then switch the TV channle to AV 1 status first. Next turn on DVR power, start DVR, select the channel you want, activate DVR time shifting function. Then DVR can record the TV program automatically. it is supported that the time now is 6:00pm. If you select 120 minutes of Time Shifting in the system setup, then from 6:00pm to 8:00pm, DVR will automatically record the 120 minutes'TV program without stopping. You can watch at your will.

If the hard disc space can not meet 2 hours' recording requirement , then the DVR automatic recording time will be reduced accordingly.

Note: If you turn off DVR power, the program recorded via DVR Time Shifting will be saved no longer. While, the program recorded via normal recording will still be saved

-18-

FOR YOUR REFERENCE

◆ **Specification**

Power requirement: AC240V, 50Hz

Power consumption：40W

Signal system: PAL/NTSC

Operating temperature range: +5~+35°C

Operating humidity range: 5~90% (no condensation)

Disc played

1. DVD-video disc

　　　◆12cm single-sided, single-layer

　　　◆12cm single-sided, double-layer

　　　◆8cm single-sided, single-layer

　　　◆8cm single-sided, double-layer

2. VCD-video disc

　　　◆12cm disc

　　　◆8cm disc

3. CD disc

　　　◆12cm disc

　　　◆8cm disc

Video output

　　　◆Output level:1 +/- 0.2Vp-p(75 ohm)

　　　◆Horizontal resolution: >450 lines

　　　◆S/N ratio: >60dB

Audio output(load impedance:10K Ω)

　　　◆output level:1.8 + 0.2/-0.8Vrms (1KHz OdB)

　　　◆distortion:≤ 0.2%(JIS-A 1KHz.)

　　　◆ dymamic range ≥ 80dB (JIS-A 1KHz.)

　　　◆S/N ratio≥90dB(JIS-A 1KHz.)

Digital audio output:

　　　◆ Coaxial/Optical digital output.

TV tuner

　　　◆TV receive system:PAL B/G

antenna impedance:75 Ω un-balance.

　　　◆tune receive frequency:

　　　VHF-L:46.25~168.25MHz

　　　VHF-H :175.25 ~447.25MHz

　　　UHF:455.25 ~855.25MHz

Record part

　　　◆Audio S/N rate:(S/N) :80 dB

　　　◆Audio frequency(20Hz~20KHz):＋ 2dB

　　　◆Video S/N rate:(S/N):55dB

　　　◆Video bandwidth(+3/-6db):≥ 5MHz

　　　◆record time:(40G HD):9~49 hours

　　　◆time shifting:30.60.90.120min

Preset Australia TV channel up to 100 channels

Specifications are subject to change without prior notice.

FOR YOUR REFERENCE

◆**Troubleshooting**

Check the chart below for a possible cause of the problem you are expereincing before requesting service for this unit.

Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

Let the technician maintain the unit.

symptom	Possible reason	Suggested solution
No power	● The power cord is not in the socket	● Firmly insert the power cord into the socket
Remote control doesn't work	● The batteries have been exhausted.. ● The front end of the remote control is not aimed at the infrared sensor of the DVR.	● Use new batteries ● Please aim at the sensor of the unit.
Black TV screen	● The video cable is not connected or properly connected ● The TV is not switched to video mode	● Connect properly according to the system connection diagram. ● Switch the TV to video mode.
No playback	● The unit is not compatible with disc ● No disc ● The disc was inverted when being loaded	● Use a compatible disc with unit. ● Load disc ● Load disc once again with the side Up with figures/words upwards
No sound	● The audio cable is not connected or properly connection. ● Audio initial function setup error ● External amplifier operation error	● Connect the cables properly according to the diagram ● Set up once again. ● Operate the amplifier properly..
Discontinuous sound and distorting image	● Dirty Disc ● Scratches on the disc/ disc distortion	● Clean the disc surface with clean soft cloth ● Change the disc with a new one
Disable sign appears on the let bottom of TV screen	● Improper operation, the current status does not support the operation	● Please refer to the function operation instruction carefully
No images when recording with AV input	● No connection or improper connection.	● Please connect the DVR according to the diagram.
No sound when recording with AV input	● Improper audio cable connection	● Please connect the audio cable to the DVR according to diagram.
Failure to directly complete DVD copy	● The unit doesn't support disc copy of this type	● Try another DVD
Failure to directly complete VCD/CD copy	● The unit doesn't support disc copy of this type	● Try another VCD/CD
No response to any operation	● The DVR malfunctioned because of thunder, static electricity or other interferences	● Power off and then power on.

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